

RODKIN, S.A., assistant, kand.med.nauk

Diagnostic significance of the method for digital examination
through the rectum. Klém.prokt. no.2:182-187 '60. (MIRA 14:11)
(RECTUM--DISEASES)

KOLIKOV, Ye.N. (Kuybyshev-oblastnoy); RODKIN, S.A. (Kuybyshev-oblastnoy)

Stomach resection for stenosis following suturing of a perforating
ulcer of the duodenum three times. Kaz. med. zhur. no.6:56-57 H-D
'61. (MIRA 15:2)

(STOMACH SURGERY)

(DUODENUM ULCERS)

~~SECRET~~
~~SECRET~~
RODKIN, S.V.; CHERNYAVSKAYA, P.P.

Diagnosis of atypical, abortive forms of dysentery in infants.
Pediatrics no.4:84 Ap '57. (MIRA 10:10)

1. Iz otdela profilaktiki i terapii detskikh bolezney Khar'kovskogo
nauchno-issledovatel'skogo instituta okhrany materinstva i detstva
imeni N.K.Krupskoy (kandidat meditsinskikh nauk A.I.Kornilova)
(DYSENTERY)

BLITSHTEYN, I.I., kandidat biologicheskikh nauk; MOLDAVSKAYA, V.D., professor;
RODKIN, S.V., dotsent; CHERNYAVSKAYA, F.P., kandidat meditsinskikh nauk;
~~LEVITAN, R.B.~~; GRODZINSKAYA, A.I.; OSTROMUKHOVA, B.L.

The role of *Lamblia* and *hymonolepis nana* in dysentery of young children. Sov.med.21 no.3:22-26 Mr '57. (MLRA 10:7)

1. Iz Ukrainского instituta malyarii i meditsinskoy parazitologii imeni prof. V.Ya.Rubashkina (dir. I.A.Demchenko), Khar'kovskogo instituta okhrany materinstva i detstva (dir. - kandidat meditsinskikh nauk A.I. Kornikova), detskoy bol'nitsy No.24 (glavnyy vrach L.M.Poyarkova) i detskikh yasley No.81 (glavnyy vrach B.L.Ostromukhova) Khar'kov.

(DYSENTERY, BACILLARY, in inf. and child
in giardiasis & tapeworm infection, ther.)

(GIARDIASIS, in inf. and child
in bacillary dysentery, with tapeworm infect., ther.)

(TAPEWORM INFECTION, in inf. and child
in bacillary dysentery, with giardiasis, ther.)

OKUN', M.I.; RODKINA, B.S.; BARU, A.M. (Stalino)

Blood protein fractions in pneumoconiosis. Klin.med. 37 no.12:
113-117 D '59. (MIRA 13:4)

1. Iz biokhimicheskoy laboratorii (zaveduyushchiy - kand.biolog.
nauk M.I. Okun') Donetskogo instituta fiziologii truda (direktor -
kand.med.nauk L.E. Zhislin).
(LUNGS--DUST DISEASES)
(BLOOD PROTEINS)

RODKINA, B.S.; TSYTSARKINA, T.N.; CHEREDNICHENKO, L.M. (Khar'kov)

Antitoxin function of the liver in cancer. Vrach.delo no.12:
1273-1276 D '56. (MIRA 12:10)

1. Otdel patofiziologii (zav. - zasluzhennyy deyatel' nauki,
prof.S.G.Genes) Ukrainskogo instituta eksperimental'noy
endokrinologii i khirurgicheskaya klinika (zav. - zasl.deyatel'
nauki, prof.G.M.Gurevich) Ukrainskogo instituta rentgeno-radio-
onkologii.

(CANCER) (LIVER)

BOBOSHKO, I.Kh., RODKINA, L.V.

Development of cancer from atheroma of the scalp. Nov.khir.arkh.
no.1:72-73 Ja-F '58 (MIRA 11:11)

1. Probezhnaynskaya rayonnaya bol'nitsa Ternopol'skoy obl.
(SCALP--CANCER)

BOYKO, B.T.; PALATNIK, L.S.; ROD'KINA, N.I.

Electronographic investigation of the structure of overheated
and undercooled liquid metals. Fiz. met. i metalloved. 13
no.4:555-560 Ap '62. (MIRA 16:5)

1. Khar'kovskiy politekhnicheskii institut imeni V.I.Lenina.
(Liquid metals) (Electron diffraction examination)

RODKINA, R.A.

Treatment of cancer of the cervix uteri in the first stage. Kaz.
med.zhur. 40 no.6:96-98 N-D '59. (MIRA 13:5)

1. Iz akushersko-ginekologicheskoy kliniki (zav. - prof. I.T.
Mil'chenko) Kuybyshevskogo meditsinskogo instituta i Kuybyshevskogo
oblastnogo onkologicheskogo dispansera (glavvrach - N.N. Rodionova).
(UTERUS---CANCER)

RODKIN, S.A., assistant, kand.med.nauk; RODKINA, R.A.

Radiation injuries of the rectum accompanying treatment of cancer
of the cervix uteri with radium. Elem.prokt. no.2:154-157 '60.
(MIRA 14:11)

1. Iz kafedry gosspital'noy khirurgii, zaveduyushchiy kafedroy prof.
A.M. Aminev i iz Kuybyshevskogo oblastnogo onkologicheskogo
dispansera, glavnyy vrach N.N. Rodionova.
(UTERUS---CANCER) (RECTUM) (RADIUM--THERAPEUTIC USE)

..RODKINA, R.A..

Relapses and metastases following treatment of cancer of cervix
uteri of the first stage. Kaz.med.zhur. no. 1:51-53 Ja-F'61
(MIRA 16:11)

1. Akuszersko-ginekologicheskaya klinika (zav.-prof. I.T.
Mil'chenko) Kuybyshevskogo meditsinskogo instituta i oblastnoy
onkologicheskoy dispensar (glavvrach - N.N.Rodionova).

*

RODKINA, R.A., kand.med. nauk

Compound treatment of malignant tumors of the ovaries with thio-TEPA. Kaz.med.zhur. no.3:66-68 My-Je'63. (MIRA 16:9)

1. Kafedra akusherstva i ginekologii (za v. - prof. I.T. Mil'chenko) Kuybyshevskogo meditsinskogo instituta i oblastnoy onkologicheskoy dispanser (glavnyy vrach - N.N.Rodionova).
(OVARIES—CANCER) (PHOSPHINE SULFIDE)

RODKINA, Raisa Abramovna; MIL'CHENKO, I.T., prof., doktor med. nauk,
red.; KOZHEVNIKOVA, V.A., red.; GOL'DSHEYN, L.Ye., red.;
SPIEIDONOV, N.F., tekhn. red.

[Cancer of the cervix uteri and its stages] Rak sheinoi matki i
stadii. Kuibyshev, Kuibyshevskii med.in-t, 1960. 205 p.
(MIRA 15:4)

(UTERUS—CANCER)

ROD'KINA, Z.I.; VASIL'CHENKO, L.F. [Vasyl'chenko, L.F.]

Using the condenser spinning method for the manufacture of No.20
yarn made from nitron. Loh.prom. no.2:12-14 Ap-Je '65.

(MIRA 18:10)

KSANTOPULO, Ya.F.; KOTLYARSKIY, D.I.; IGNATOV, V.A.; ALKINA, E.Kh.; inzh.;
SMIRNOV, Yu.A.; inzh.; KUNITSYNA, T.I., inzh.; IGNATOVA, N.T., inzh.;
KIRSANOV, A.I., elektromekhanik; MOLODTSOV, N.A., inzh.; ROD'KO, G.V.

Discussion of two articles "Stamping apparatus for signaling, central control and block systems." and "Periods for testing relays used in signaling, central control and block systems." Avtom., telem. i svyaz' no.12:35-36 D '57. (MIRA 10:12)

1.Nachal'nik Adzhikabul'skoy distantzii signalizatsii i svyazi Azerbaydzhanskoy dorogi (for Ksantopulo). 2.Starshiy elektromekhanik Moskovskoy distantzii signalizatsii i svyazi Oktyabr'skoy dorogi (for Kotlyarskiy). 3.Ayaguzskayadistantziya signalizatsii i svyazi Turkestano-Sibirskoy dorogi (for Alkina, Smirnov, Kunitsyna, Ignatova). 4.Zaveduyushchiy postom dispetcherskoy tsentralizatsii Ayaguzskoy distantzii signalizatsii i svyazi Turkestano-Sibirskoy dorogi (for Ignatov). 5.Krasnolimanskaya distantziya signalizatsii i svyazi Donetskoy dorogi (for Kirsanov). 6.Moskovskaya distantziya signalizatsii i svyazi Gor'kovskoy dorogi (for Molodtsov). 7.Zamestitel' nachal'nika sluzhby signalizatsii i svyazi Orenburgskoy dorogi (for Rod'ko).

(Railroads--Signaling)

HUNGARY / Microbiology. Microbes Pathogenic to Man and F-5
Animals. Bacteria. Bacteria of the Intestinal
Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72115.

Author : Rodler, Miklos,
Inst : Not given.
Title : Nutrient Medium for the Diagnosis of Intestinal
Bacteria.

Orig Pub: Kiserl. orvostud., 1956, 8, No 1, 107-109.

Abstract: No abstract.

Card 1/1

RODLER III -
NOGRADY, Gyorgy; ADAM, Jozsef; RODLER, Miklos

Experiences in mass culture of Shigella strains. Kiserletes
orvostud. 6 no.5:398-402 Sept 54.

1. Pecs Orvostudományi Egyetem Mikrobiológiai Intézete
(SHIGELLA, culture
mass culture)

RODLER, Miklos, dr.

Studies on the spreading of Staphylococcus aureus infections in the maternity department of Tolna County Hospital. Nepe-
geszsegugy 44 no.12:374-380 D '63.

1. Kozlemeny a Tolna megyei Kozegeszsegugyi--Jarvanyugyi Allomasrol
(igazgato: Olay Andor dr.).
(STAPH INFECTIONS) (INFANT MORTALITY)
(INFANT, NEWBORN, DISEASES)
(CROSS INFECTION) (PUERPERAL INFECTION)
(ANTIBIOTICS)

VOROS, Sandor; RODLER, Miklos; HEGYI, Pal

Use of a polytropic 2-layer culture medium (CIG) for the simultaneous study of citrate utilization, indole production and gelatin liquefaction. Kiserletes Orvostud. 12 no.6:615-623 D '60.

1. Pecsí Orvostudományi Egyetem Mikrobiológiai Intézete.

(CULTURE MEDIA)
(CITRATES metab)
(INDOLES metab)
(GELATIN)
(BACTERIA metab)

RODLER M.
NOGRADY, G.; RODLER, M.

A double layered polytropic medium in the diagnostics of enteric bacteria. Acta microb. hung. 1 no.4:437-443 1954.

1. Institute for Microbiology, Medical University, Pecs.

(CULTURE MEDIA

double-layer polytropic medium for intestinal bact.)

(BACTERIA

intestinal, double-layer polytropic culture medium)

REDA, A.

Foraly, G. A double-layered polytropic medium in the diagnostics of enteric bacteria. In English, p. 437.

ACTA MICROBIOLOGICA, Budapest, Vol. 1, no. 4, 1954.

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

RODLER, Miklos.

Polytrophic culture media in routine diagnostics of intestinal bacteria. Kísérletes orvostud. 8 no.1:107-109 1956.

1. Országos Kósegeszségügyi Intézet Pécsi Állomása.

(CULTURE MEDIA

polytrophic, agar, in determ. of intestinal bact. (Hun))

(INTESTINES, bacteriol.

culture for intestinal bact., polytrophic agar media
in routine determ. (Hun))

RODLING, Jiri

On problems of the postgraduate education of physicians.
Cesk. gynøk. 28 no.6:362-363 in '63.

(EDUCATION, MEDICAL, POSTGRADUATE)

RODLING, Jiri, MUDr.

Present problem of postgraduate training and specialization of physicians. Cesk. zdravot. 4 no.6:301-309 June 56.

1. Namestek reditele Ustavu pro doskolovani lekaru v Praze.
(EDUCATION, MEDICAL,
postgraduate in Czech. (Cz))
(SPECIALISM,
specialization of physicians in Czech. (Cz))

RODLING, Jiri, MUDr.

Tasks & activities of the postgraduate medical school. Cesk. zdravot.
6 no.11:625-638 Nov 58.

1. Nametek reditele Ustavu pro doskolovani lekaru v Praze.
(EDUCATION, MEDICAL
postgraduate med. school tasks & activities (Cz))

RODLING, J., Dr.

Surgical treatment of enuresis ureterica. Cas. lek. cesk. 91 no.
27:785-786 4 July 52.

1. Z chirurgicko-urologického oddeleni Krajskeho ustavu narodniho
zdravi v Usti n. L. Prim. MUDr. Jiri Rodling.

(ENURESIS, etiology and pathogenesis,
ureteral ectopy, surg.)

(URETERS, abnormalities,
ectopy causing enuresis, surg.)

(ABNORMALITIES,
ectopy of ureters causing enuresis, surg.)

RODLING, Jiri

Our experiences with the diagnosis, therapy and prevention of
cancer of the rectum. Cas. lek. cesk. 99 no.28:874-881 8 J1 '60.

1. Chirurgické oddelení KUNZ v Usti nad Labem, primar MUDr. Jiri
Rodling.
(RECTUM neopl.)

MACHARACKOVA, K., MUDr.; RODLING, J., doc. dr.; VYSOHLID, J., doc. dr.

Health workers and some problems of their education. Cesk. zdrav.
12 no.7/8:347-349 Ag '64.

Hematology

CZECHOSLOVAKIA UDC 616.155.194-021.5:616.153.96.04)-085.387.018.51

RÖDLING, J.; Surgical Department, Krajska Hospital (Chirurgické Oddelení Krajské Nemocnice), Usti nad Labem, Head (Primar) Docent Dr J. RÖDLING.

"Influence of the Transfusion of Erythrocyte Mass on Secondary Anemia and Hydroproteinemia."

Praque, Casopis Lekaru Ces'ych, Vol 105, No 46, 18 Nov 66, pp 1241 - 1248

Abstract [Author's English summary modified]: The effect of single and of repeated transfusions of erythrocyte mass was investigated in 50 patients, and of whole blood transfusion in 8 patients with respect to the red blood cells, and to the protein level in the plasma. Transfusion of erythrocyte mass can replace transfusion of whole blood in secondary anemias. Such transfusions also improve anemias with reduced blood protein levels, and hydroproteinemia. However, this last disease requires large amounts of erythrocyte mass repeated 2 or 3 times at short intervals. For red cell improvement the mass should not be older than 10 days. For hydroproteinemia treatment storing of the mass for 2-3 weeks is an advantage. 10 Figures, 3 Tables, 12 Western

RODLING, J.

Tenth anniversary of the Institute for Postgraduate Medical Education in Prague. (as. lek. zesk. 103 no.5281/13-1/17 D 28 '64

OBRUCHEV, Sergey Vladimirovich; RODMAN, B.B., red.

[In the Heart of Asia] V serdtse Azii. Moskva, Mysl',
1965. 126 p. (IRA 18:10)

RODMAN, L.S.

Determination of soil conditions by means of vegetation; based
on the example of the Volga-Akhtuba Floodplain. Trudy MOIP 8:
167-172 '64. (MIRA 17:12)

NESVETAYLOVA, N.G.; ROIMAN, L.S.

Authenticity of soil and certain geochemical indicational studies.
Biml. MOIP. Otd.geol. 39 no.5:154-155 S-O '64.

(MIRA 18:2)

MYALO, Ye.G.; RODMAN, L.S.

Flood land forests in the southeast of the European U.S.S.R. Vest.
Mosk. un. Ser. 5: Geog. 17 no.4:67-70 J1-Ag '62. (MIRA 16:1)
(Forests and forestry)

RODMAN, L.S.

Development of a bush form of *Rosa spinosissima* in the shrubby
piedmont deserts of western Altai [with summary in English].
Biol.MOIP. Otd.biol. 62 no.1:81-87 Jan '57. (MIRA 10:6)
(EAST KAZAKHSTAN PROVINCE --ROSES)

RODOLAI, I.

Forms of vertical air movements. p. 385.
(Idojaras. Vol.60, no.6, Nov./Dec., Hungary) 1956

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957. Uncl.

RODMAN, L.S.; LEVIN, V.L.; POLIKARPOVA, L.D.

Quantitative characteristics of the significance of plants as
ground-water indicators in the northwestern part of the Caspian
Sea region. Nauch. dokl. vys. shkoly; biol. nauki no.3:146-153
'60. (MIRA 13:8)

1. Rekomendovana kafedroy fizicheskoy geografii Moskovskogo
gosudarstvennogo pedagogicheskogo instituta im.V.I.Lenina.
(Caspian Sea region--Water, Underground)
(Indicator plants)

RODMAN, I.S.

Use of aerial methods in geobotanical research in the Volga-Akhtuba
Flood Plain and the Volga Delta. Bot. zhur. 45 no.12:1771-1773 D '60.
(MIRA 13:12)

(Volga--Akhtuba flood plain--Phytogeography)
(Photographic interpretation)

NESVETAYLOVA, N.G.; RODMAN, L.S.

Ecology of some plant communities as indicators of salinization
in the Caspian Sea region. Biul. MOIP. Otd. biol. 68 no.5:
44-50 S-O '63. (MIRA 16:10)

RODMAN, L. S.

SEREERYAKOV, I.G.; DOMANSKAYA, N.P.; RODMAN, L.S.

Morphogenesis of life forms of shrubs exemplified by the filbert.
Biul.MOIP. Otd.biol. 59 no.2:57-70 Mr-Apr '54. (MLRA 7:6)
(Filbert) (Botany--Morphology)

KHAMIN, Nikolay Gavrilovich; MOTOVILOV, G.P., otv. red.; ROE-MAN,
L.S., red.

[Interpretation of aerial photographs in forestry] Leso-
khoziaistvennoe deshifrirovaniye aerosnirkov. Moskva,
Nauka, 1965. 139 p. (MIRA 18:9)

NESVETAYLOVA, N.G.; RODMAN, L.S.

Certain principles underlying the plotting of subsoil salinization charts on the basis of geobotanical data. Nauch.dokl. vys.shkoly; biol.nauki no.1:129-136 '59. (MIRA 12:5)

1. Rekomendovana kafedroy geobotaniki Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.
(SOILS---MAPS) (PLANT COMMUNITIES) (ALKALI LANDS)

ORE, Øystein, 1899-; RODMAN, Yu.S.[translator]; YAGLOM, A.M., red.

[Niels Henrik Abel, mathematician extraordinary] Zamecha-
tel'nyi matematik Nil's Genrikh Abel'. Moskva, Gos.izd-vo
fiziko-matem. lit-ry, 1961. 341 p. Translated from the
English. (MIRA 16:4)

(Abel, Niels Henrik, 1802-1829)

RODMAN, Zalaman Leybovich; POPOV, V.A., inzh., retsenzent; FAL'KO, O.S.,
inzh., red.; SMIRNOVA, G.V., tekhn.red.

[Flexible shafts for automobiles and motorcycles] Avtomobil'nye
i mototsikletnye gibkie valy. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1960. 75 p. (MIRA 14:4)
(Motor vehicles--Transmission devices)

ACC NR: ARG029501

SOURCE CODE: UR/0137/66/000/006/I026/I026

AUTHOR: Mishin, D. D.; Dunayev, F. N.; Shmel'kov, A. P.; Rodnevskiy, L. A.; Mityushev, V. A.; Kuranov, A. A.; Yevdokimova, L. A.

TITLE: Effect of plastic deformation and heat treatment on the magnetic anisotropy of a cobalt-platinum alloy

SOURCE: Ref. zh. Metallurgiya, Abs. 6I176

REF SOURCE: Uch. zap. Ural'skogo un-ta. Ser. fiz., vyp. 1, 1965, 60-63

TOPIC TAGS: plastic deformation, magnetic anisotropy, cobalt containing alloy, platinum containing alloy, ordered alloy

TRANSLATION: A study was made of the effect of plastic deformation and heat treatment on the magnetic anisotropy of a Co-Pt alloy, having a nearly equiatomic composition. From the curves of mechanical moments presented for samples with different deformations, it followed that with an increase in the amount of deformation a sharper definition of magnetic biaxiality occurred, and an asymmetry of the rotational moment diagrams was found relative to the axis of the angles. After an optimum heat treatment (heating to 1000°C and holding 3 hr and ordering at 600°C for 1.5 hr), the magnetic anisotropy almost disappeared. However, as evident in the described demagnetization and magnetic energy diagrams, magnetic anisotropy was present after the ordering of cold rolled samples. (From RZh. Fiz.).

SUB CODE: 11

Card 1/1

UDC: 669.255'231:538.22

MAKHOVKO, V.V.; RODNIKOV, A.V.

Histomorphology of the ovary of sexually immature rabbits following parenteral feeding. Uch.zap. 2-go MGMI 16:143-153 '58.
(MIRA 13:6)
(OVARIES) (STARVATION) (BLOOD PLASMA SUBSTITUTES)

MAKHOVKO, V.V.; RODNIKOV, A.V.

Restorative processes in the testicles of sexually immature rabbits following a period of starvation. Uch.zap. 2-go MGMI 16:154-163 '58. (MIRA 13:6)
(TESTICLE) (STARVATION) (BLOOD PLASMA SUBSTITUTES)

S/117/60/COO/C12/007/022
A004/A001

AUTHOR:

Rodnin, A. N.

TITLE:

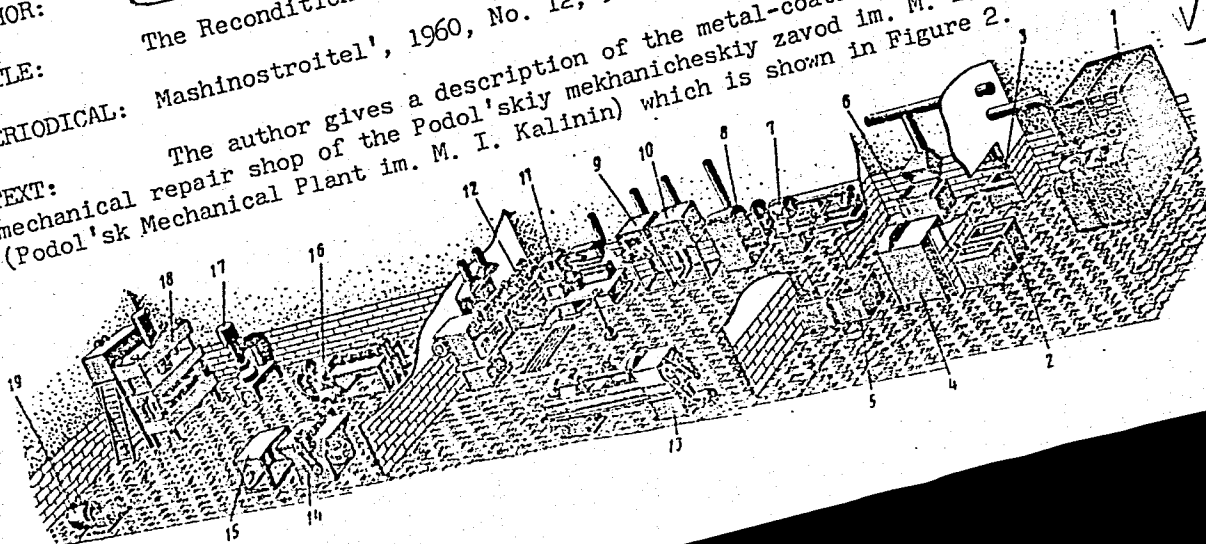
The Reconditioning of Parts by the Metal-Coating Method

PERIODICAL:

Mashinostroitel', 1960, No. 12, pp. 23-24

TEXT:

The author gives a description of the metal-coating section of the mechanical repair shop of the Podol'skiy mekhanicheskiy zavod im. M. I. Kalinina (Podol'sk Mechanical Plant im. M. I. Kalinin) which is shown in Figure 2.



Card 1/3

S/117/60/000/012/007/022

The Reconditioning of Parts by the Metal-Coating Method A004/A001

Figure 2:

1 - h-f installation of 30 kw power; 2 - oil and water baths; 3 - salpeter furnace; 4 - H-30 (N-30) furnace; 5 - oil and water baths; 6 - work bench; 7 - electric pulse machine; 8 - electric arc machine; 9 - metal-coating chamber; 10 - sandblast chamber; 11 and 12 - lathes with mounted 3M6 (EMB) metal spray guns; 13 - ДИП-200 (DIP-200) lathe; 14 - rolls for the flattening of rubber; 15 - work bench; 16 - shears for the cutting of rubber; 17-briquetting press for bronze chips; 18 - cup press; 19 - hydraulic press drive.

The metal-coating installation is composed of the spray gun, power source and compressed-air feed system. The molten metal is sprayed at a pressure of 4.5 - 5 at, the air passes through oil and water separators with coke filters. For the reconditioning of bodies of revolution the 3M-6 (EM-6) spray gun is used which is mounted on the lathe carriage. The metal in wire form is fed to a flame and the molten droplets are ejected with a continuous stream of compressed air. Steel wire and wires of other high-melting and low-melting metals are used, e. g. zinc-aluminum. The process of reconditioning parts consists of the preparation of the surface, the application of the metal coating and subsequent tooling, i. e. lathe-work, grinding, polishing etc. As a result of introducing metal coating for the reconditioning of the spindles of centerless grinding machines of Soviet and

Card 2/3

The Reconditioning of Parts by the Metal-Coating Method S/117/60/000/012/007/022
A004/A001

and foreign make, the life of these spindles between the two repairs was increased from 6 to 12 months. In 1959 metal savings of 27.4 tons were obtained on account of metal coating, while, as a result of introducing various reconditioning methods, a total of 132 tons of metal was saved. The author points out that metal coatings are characterized by brittleness and low ductility, therefore machine parts subjected to high dynamic loads and impact effects should be reconditioned by other methods, e. g. electric vibration build-up. The Plant has introduced a special machine for the centrifugal lining of bearings and bushings. A cast iron or steel bushing is fixed on the face plate of the lathe head stock and filled with small pieces of bronze and bronze chips. The bushing, serving as body of the bimetallic bearing, is then rotated and the molten non-ferrous metal filling the rotating form takes its image. The use of bimetallic compositions cuts down the consumption of nonferrous metals by 70 - 80%. In 1959, 30,000 rubles and 3,600 kg of bronze were saved. There are 3 figures. ✓

Card 3/3

RODMAN, M. I.

"Automatic Analyzer. Jour. Tech. Phys. 5, p. 308, 1935.

RODMAN, M. I.

Apr 47

USAF/Aeronautics
Engines, Aircraft - Detonations
Fuel, Aviation

"Electric-acoustic Method of Recording Knocks in Plane Engines," A. S. Sokolik, Dr Chen
Sci, A. S. Sokolik, B. K. Shapiro, Cand Tech Sci, M. I. Rodman, 7 pp

"Tekh Voz Flota" No 5 (230)

In the process of testing plane engines and fuel, in connection with a knock, it is most important to have objective registration of the knock to determine the critical point of cylinders and to be able to record the data on a scale. This article explains a new method of recording the knock by acoustic means and is meant to familiarize specialists with the new development. The author presents apparatus layout diagram and also photographs of oscillograph recording of an engine under normal operation and when there is a knock.

PA 2879

STRELKOVÁ, L.A., kandidátka lékařských ved.; RODMANOVÁ, B.R., Dr.

Utilization of books in industrial plants. Česk.zdravot. 4 no.2:91-93
Mar. 1956.

1. Metodolog domu zdravotnické osvěty Sovětského okresu města
Moskvy (for Rodmanová)
(HEALTH, education,
in indust. (Cz))
(INDUSTRIAL HYGIENE,
health educ. (Cz))

RODNIENKOV, Mikhail Gavrilovich; GUBIN, V.A., inzh., retsenzent; BUDARTSEVA,
S.S., inzh., retsenzent; OSIPOV, V.D., red.; GORYUNOVA, L.K.,
red.izd-va; KORYUSHINA, A.S., tekhn.red.

[Mechanizing the felling and the division of timber] Mekhani-
zatsiia valki i razvedki less. Moskva, Goslesbumizdat, 1960.
138 p. (MIRA 13:7)

(Lumbering)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
RODNEVICH, B.N. BC Synthesis of vanillin. G. V. TCHEREMINOV and B. N. RODNEVICH (J. Appl. Chem. Russ., 1936, 8, 908-911). The method described in B.P. 401,563 (B., 1934, 500) gives 80% yield. R.T.																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

USSR / Human and Animal Morphology (Normal and Pathological). Urogenital System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 17019

Author : Makhovko, V. V.; Rodnikov, A. V.

Inst : Second Moscow Medical Institute

Title : Histomorphology of Ovaries of Immature Rabbits in Parenteral Feeding

Orig Pub : Uch. zap. 2-y Mosk. med. in-t, 1958, 16, 143-153

Abstract : The ovaries of starving 1-2 $\frac{1}{2}$ -month-old rabbits were studied, to which a concentrated therapeutic serum of Belen'kiy (12-15% of protein) (I) was intravenously introduced. Thirty-six hours after parenteral introduction of I in one-month-old rabbits, satisfying

Card 1/3

USSR / Human and Animal Morphology (Normal and Pathological). Urogenital System.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 17019

S

only 50-70% of the protein need, restoration of cell structure, sharp increase of the number of oviducts which began the stage of active growth, increase of their size and number of primordial follicles, decrease of the percentage of atretic follicles, etc., were observed. Increase of the duration of introduction of I intensifies these processes. Not only a normalizing but also a stimulating effect of I on the process of differentiation of primordial follicles was noted. Increase in the frequency of occurrence of cases of amitotic division of gametes at the stage of primary follicles

Card 2/3

79

RODNIKOV, A.V.

High quality processed limestone for the sugar industry. Sakh.prom. 35
no.6:25-28 Je '61. (MIRA 14:6)

1. Rosglavpishchesnabsbytsyr'ye pri Vserossiyskom Sovete Narodnogo
Khozyaystva. (Limestone) (Sugar industry)

USSR / Human and Animal Morphology (Normal and Pathological). Urogenital System.

S

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 17024

Author : Makhovko, V. V.; Rodnikov, A. V.
Inst : Second Moscow Medical Institute
Title : Restorative Processes in the Tests of Immature Rabbits After They Suffered Starvation

Orig Pub : Uch. zap. 2-y Mosk. med. in-t, 1958, 16, 154-163

Abstract : It was shown in experiments on 1-2½-month-old male rabbits that starvation (without deprivation of water) induces deep degenerative changes in the cells of the spermatogenic epithelium (SE), sharper than the changes in the ovary of rabbits of the same age. Complete

Card 1/2

USSR / Human and Animal Morphology (Normal and Pathological). Urogenital System.

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 17024

S

decomposition of a considerable amount of SE is observed; the diameter of convoluted tubuli decreases. The introduction of a protein preparation leads to rapid regeneration of SE; the diameter of convoluted tubuli almost reaches normal after only 24 hours, and after 72 hours exceeds it considerably (stimulating effect). Parenteral protein feeding of starving animals leads to faster restoration of the structure of the testes than feeding per os.

Card 2/2

YAROSH, S.K.; RODNIKOV, A.V.

Elets bunglers. Sakh.prom. 34 no.10:12-13 O '60.
(Elets--Limestone)

(MIRA 13:10)

1. MODNIKOV, N.
2. USSR (600)
4. Building Materials
7. House out of blocks and clay. Sel'. stroi. 2 no. 7 .1947.

9. Monthly List of Russian Accessions. Library of Congress, March 1953. Unclassified.

USSR/Cultivated Plants. Potatoes. Vegetables, Melons.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77677.

Author : Rodnikov, N.P.

Inst : Tiniryazev Agricultural Academy.

Title : Work of the Department of Vegetable Growing and the
Vegetable Experimental Station of the Tiniryazev
Agricultural Academy (TAA).

Orig Pub: Izv. Tiniryazevsk. s.-kh. akad., 1957, No 4,
131-142.

Abstract: Review of the activity since 1918. Basic laws
were studied of the formation of the productive
organs of vegetable plants, methods were developed
of compact, common and repeated cultivation,
of standards between the rows during mechanized
sowing and cultivation and methods of growing

Card : 1/3

64

USSR/Cultivated Plants. Potatoes, Vegetables, Melons.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77677.

were worked out of cultivation in protected ground, effective methods of warming green houses, hothouses and of warming the ground with the overflow of industrial enterprises; different substitutes were investigated of glass and light portable constructions were created for covering the vegetable plants. Methods of storage of vegetables were developed. --
Ye. A. Okorokova.

Card : 3/3

65

RODNIKOV, N.P., starshiy nauchnyy sotrudnik, kand. sel'skokhoz. nauk

Soilless growing of plants as a method for the intensive use of
greenhouses in vegetable growing. Izv. TSKHA no.5:135-147 '64.
(MIRA 18:5)

1. Ovoshchnaya opytnaya stantsiya Moskovskoy ordena Lenina sel'sko-
khozyaystvennoy akademii imeni Timiryazeva.

RODNIKOV, N.P., dotsent

Honorary Academician V. I. Edel'shein. Izv. TSKHA no.3:195-196
'61. (MIRA 14:9)

(Edel'shein, Vitalii Ivanovich, 1881-)

RODNIKOV, N.P. dotsent; LYCHKIN, V.V.

Cucumbers growing on bebbles. *Nauka i zhizn'* 28 no.3:47-48 Mr '61.
(MIRA 14:3)

1. Kafedra *ovoshchevodstva* Moskovskoy sel'skokhozyaystvennoy
akademii imeni Timiryazeva (for Rodnikov). 2. *Starshiy* agronom
Moskovskogo neftepererabatyvayushchego zavoda (for Lychkin).
(Cucumbers) (Plants--Soilless culture)

RODNIKOV, N.P., kand. sel'skokhozyaystvennykh nauk, dots.

Work of the Department of Vegetable Growing and the Vegetable
Experimental Station of the Timiriazev Agricultural Academy [with
summary in English]. Izv. TSKhA no.4:131-142 '57. (MIRA 11:1)
(Vegetable gardening)

ACC NR: AP7004787 (A) SOURCE CODE: UR/0413/67/000/001/0113/0114

INVENTOR: Ryvkin, L. S.; Rodnikov, V. A.

ORG: None

TITLE: An accumulative fuel pump. Class 46, No. 190143

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 1, 1967,
113-114

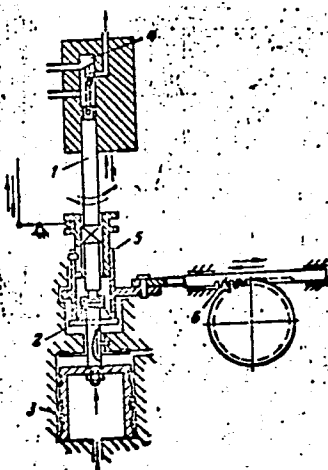
TOPIC TAGS: engine fuel pump, internal combustion engine component

ABSTRACT: This Author's Certificate introduces: 1. An accumulative fuel pump for internal combustion engines, e. g. free piston engines. The unit contains a housing holding a plunger pair. Reciprocating motion is imparted to the plunger by a mechanical transmission and an accumulator. In order to improve fuel delivery and simplify design of the pump, there is a cavity above the plunger which is filled with fuel during the suction stroke for stopping the plunger and setting the hydraulic thrust. 2. A modification of this pump with the plunger connected to a rotating unit which may be made in the form of a supply sleeve to turn the plunger about its axis for fuel delivery. 3. A modification of this pump in which the rotating device is equipped with any type of drive, e. g. hydraulic, gas or mechanical.

UDC: 621.43.038.5

Card 1/2

ACC NR: AP7004787



1—plunger pair; 2—mechanical drive; 3—accumulator; 4—cavity above the plunger;
5—rotating unit; 6—drive for the rotating unit

SUB CODE: ²¹13/ SUBM DATE: 10May65

Card 2/2

ACC NR: AP7002994

(A, N)

SOURCE CODE: UR/0413/66/000/021/0095/0095

INVENTORS: Ryvkin, L. S.; Rodnikov, V. A.

ORG: none

TITLE: Accumulating fuel pump. Class 46, No. 189644

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 24, 1966, 95

TOPIC TAGS: pump, engine fuel pump, internal combustion engine

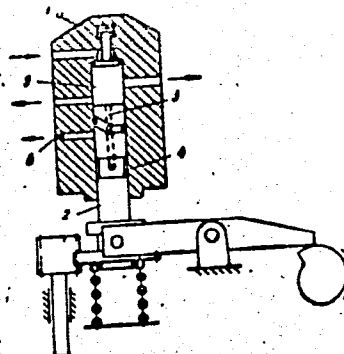
ABSTRACT: This Author Certificate presents an accumulating fuel pump for an internal combustion engine of, say, the free-piston type. The pump contains a casing which hold a bushing, a plunger, and a hydraulic damper (see Fig. 1). To improve its reliability and to simplify its construction, the damper is placed in the plunger couple and forms an axial drill hole in the plunger. This hole is connected to an annular groove on the cylindrical surface of the plunger and provides a flow duct for the fuel (after the cutoff) from the chamber above the piston through a nozzle in the bushing.

UDC: 621.43.038.5--752.2

Card 1/2

ACC NR: AP7002994

Fig. 1. 1 - bushing; 2 - plunger; 3 - axial
drill hole; 4 - annular groove;
5 - chamber above the piston;
6 - nozzle



Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 29Oct65

Card 2/2

L 08051-67 EWT(1) WW
ACC NR: AP6033504

SOURCE CODE: UR/0413/66/000/018/0134/0135

INVENTOR: Rodnikov, V. A.

32

B

ORG: none

TITLE: High pressure fuel pump. Class 46, No. 186222

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 18, 1966, 134-138

TOPIC TAGS: high pressure pump, engine fuel pump, fuel pump, internal combustion engine

ABSTRACT: An Author Certificate has been issued describing a high-pressure fuel pump for internal combustion engines, containing a sleeve and a piston moving in it and in motion by a camshaft. To simplify design and obtain a specified injection the cam and shaft are not fixed to each other but are kinematically connected by an elastic element (see Fig. 1). Orig. art. has: 1 figure.
[Translation]

Card 1/2

UDC: 535.321:621.472

L 08051-67
ACC NR: AP6033504

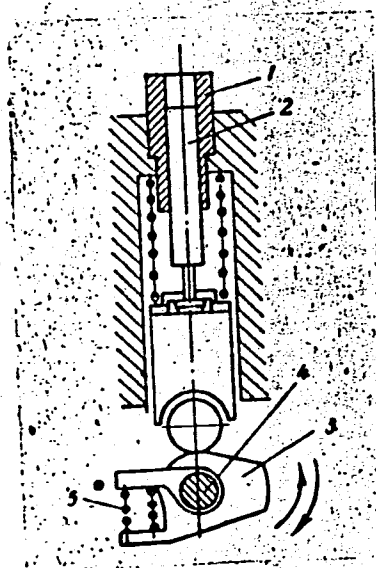


Fig. 1. High-pressure fuel pump
1—Sleeve; 2—piston;
3—cam; 4—shaft; 5—elastic
element.

SUB CODE: 13/ SUBM DATE: 11Dec64/

Card 2/2 RC

RODKIEWICZ, B.; PRZELECKA, A.; POZNANSKA, H.

"Nucleic acids in a cell."

p. 283 (Postepy Biochemii) Vol. 2, no. 2, 1956
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

CIA-RDP86-00513R0014450

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		100 AND 4TH ORDERS	
RODNIKOVA, I. V. SA 535.343.2 : 535.323 3873. Dispersion of anthracene crystals in the visible part of the spectrum. Osmakov, I. V., Frenkhteyn, A. F. and Rodnikova, I. V. J. Exp. Theor. Phys. (USSR), 18, 439-18 (May, 1968) in Russian. -The 3 principal refractive indices were measured for a set of wavelengths in the visible spectrum, and a two-term formula for the dispersion was derived. From this it becomes clear that the violet absorption band of anthracene belongs to the strong absorption bands with a vibrator force of ~ 1. A.					
450 53.8 METALLURGICAL LITERATURE CLASSIFICATION					

RODNIKOVA, I. V.

155T60

155T60

USSR/Physics - Dispersion, Light
Diffraction, Light

Jan 50

"Dispersion of Light in Crystals of Phenanthrene,"
I. V. Rodnikova, A. Yu. Eychis, Inst of Phys, Acad
Sci Ukrainian SSR, 5 pp

"Zhur Eksper i Teoret Fiz" Vol XX, No 1

Previous work on anthracene dispersion showed Fres-
nel's method of diffraction can be successfully em-
ployed for obtaining dispersion curves. Here, same
method is used to investigate dispersion of phenan-
threne crystals. Turns out that effective forces of
oscillators for absorption bands with wave lengths

155T60

USSR/Physics - Dispersion, Light (Contd)

Jan 50

from 3,490 to 3,500 Angstroms are considerably less
than for first absorption bands of anthracene. Sub-
mitted 18 Jul 49.

USSR/Physics - Electron Optics

Dec 51

"Motion of Charged Particles in a Magnetic Field of a Linear Current and in the Electric Field of a Cylindrical Condenser." V. M. Keldan, I. V. Rodnikova, Leningrad Phys Tech Inst, Acad Sci

"Zhur Eksp 1 Teoret Fiz" Vol XXI, No 12, pp 1364-1369

Derives expressions in form of quadratures, detg motion of charged particles in a constant electromagnetic field of a cylindrical condenser with linear conductor along its axis. At certain ratio of field tensor and initial velocity of particles such a system

1981103

USSR/Physics - Electron Optics
(Contd)

Dec 51

has the property to focus bundles of charged particles. Shows that linear charged conductor acts on motion of charged particles with initial velocity perpendicular to conductor as deviating electrooptical element. Submitted 5 Jan 51.

1981103

RODNIKOVA, I. V.

L 39489-65 EWT(1) IJP(e)

ACCESSION NR: AP5004197

S/0020/65/160/001/0085/0087

AUTHORS: Kel'man, V. M. (Academician AN KazSSR); Rodnikova, I. V.;
Finogenov, P. A.; Bikhulatov, T. A.

TITLE: Prism mass spectrometer 21

SOURCE: AN SSSR. Doklady, v. 160, no. 1, 1965, 85-88 9 8 B

TOPIC TAGS: mass spectrometer, prism mass spectrometer, electro-
static focusing

ABSTRACT: The article presents a description and test results of a
prism mass spectrometer, whose ion-optical system is similar to the
electron-optical system of a prism magnetic beta spectrometer
(described by V. M. Kel'man and S. Ya. Yavor in Elektronnaya optika
[Electron Optics], M-L, 1963, p. 325). The dispersion is produced
by a two-dimensional magnetic prism, but the collimator and the
focusing part contain not magnetic but electrostatic lenses, which

Card 1/2

L 39489-65

ACCESSION NR: AP5004197

are more suitable for the focusing of ion beams. A theoretical analysis of the mass spectrometer was given by V. M. Shel'man and L. M. Gall' (ZhTF, v. 31, No. 9, 1083, 1961). The various units of the spectrometer and the adjustment methods are briefly described. By way of an example, it is shown that the doublet $^{14}\text{NH}_3$ -- ^{16}OH , with a mass difference 23.7×10^{-3} mass units, was almost completely resolved. The resolving power calculated from the widths of the peaks at half the height is 2000. Orig. art. has: 2 figures.

ASSOCIATION: Institut yadernoy fiziki Akademii nauk KazSSR (Institute of Nuclear Physics, Academy of Sciences KazSSR)

SUBMITTED: 20Jul64

ENCL: 00

SUB CODE: GP, EC

NR REF SOV: 002

OTHER: 000

Card

2/2 *Lo*

ACC NR: AP6036034

SOURCE CODE: UR/0057/66/036/011/2028/2034

AUTHOR: Kel'man, V.M.; Rodnikova, I.V.; Uteyev, M.L.

ORG: Institute of Nuclear Physics, Kaz.SSR, Alma-Ata (Institut yadernoy fiziki Kaz.SSR)

TITLE: A magnetic prism mass spectrometer

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 11, 1966, 2028-2034

TOPIC TAGS: mass spectrometer, prism, magnetic field, electrostatic lens

ABSTRACT: A magnetic prism mass spectrometer is described, theoretical and experimental background for the design of which will be found in two papers by V.M. Kel'man and collaborators (ZhTF, 31,1083,1961; DAN SSSR, 160,85,1965). Collimation and focusing are accomplished by two identical 100 cm focal length singlet electrostatic lenses. The dimensions of the pole pieces of the magnetic prism, in which the beam is deflected through 106° , are $3 \times 15 \times 13$ cm, and the gap between them is 16 mm. A beam of 4.0-4.2 keV ions from a conventional electron impact ion source is admitted through a 0.1 mm slit, limited by a 1.0×1.2 cm oval iris 88 cm from the slit, collimated by the electrostatic lens 12 cm from the iris, deflected by the magnetic prism, and focused by the second lens onto an adjustable slit having a maximum width of 0.35 mm. The current through the exit slit is amplified and recorded with an automatic plotter. The ion beam is brought to a line focus by the fringe

Card 1/2

UDC: 539.1.08

ACC NR: AP6036034

field of the prism, and the focal line is in the central plane of the prism when the instrument is properly adjusted. This adjustment is effected by moving the prism magnet, because the collimator tube is rigidly fastened to the vacuum system. The relative mass dispersion of the instrument is 1330 mm (i.e., 13.3 mm per percent mass change). The records of several close mass doublets obtained with the instrument are presented. A resolving power of about 2200 was achieved with the exit slit wide open, and resolving powers up to 3000, with a narrow exit slit. Spectra were also recorded without the second (focusing) lens, the collimator being adjusted to overcollimate the beam and bring it to a focus on the exit slit. There was no appreciable deterioration of the resolving power under these conditions. Orig. art. has: 1 formula and 8 figures.

SUB CODE: 20

SUBM DATE: 18Dec65

ORIG. REF: 005

Card 2/2

PERTSOVSKIY, Ye.S.; BERLIN, I.Z.; RODNEVICH, B.N.; FREYMAN, I.R.;
LETNEV, B.Ya., red.

[Protection of cereal products from weapons of mass
destruction] Zashchita khleboproduktov ot oruzhia massovogo
porazheniia. Moskva, Kolos, 1964. 133 p. (MIRA 18:3)

KEL'MAN, V.M., akademik; RODNIKOVA, I.Y.; PINOGENOV, P.A.; BIKBULATOV, T.A.

Prismatic mass spectrometer. Dokl. AN SSSR 160 no.1:85-87 Ja. '65.
(MIRA 18:2)

1. Institut yadernoy fiziki AN KazSSR. 2. AN KazSSR (for Kel'man).

RODNIKOVA, I.V.; SUPHINA, A.B. (Leningrad)

Determination of the position of the vinyl group in vinyl diphenyl
oxide isomers from the absorption spectra. Zhur. fiz. khim. 36
no.6:1287-1292 Je'62 (MIRA 17:7)

S/057/63/033/004/003/021
B187/B102

AUTHORS: Kel'man, V. M., and Rodnikova, I. V.

TITLE: Mass spectrometers with two-dimensional electric and magnetic fields

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 4, 1963, 387 - 392

TEXT: In the previous paper of the authors (ZhTF, 32, no. 3, 1962, 269) mass spectrometers with very small aberration are described, the deflecting system of which consists of two-dimensional magnetic and electrostatic fields which are arranged separately in a series. The ion beam before entering and after leaving the fields is parallel. The postulation that the entire system must be achromatic determines the mutual position of the magnetic and the electric part of the apparatus. The entire system as a whole could not be two-dimensional. In the present paper the electron-optical properties of such a system are studied for the case that the entire system remains two-dimensional. The formulas are established for the general relativistic case and then simplified for the nonrelativistic case (low particle velocity) frequently occurring in practice. The angular

Card 1/ 3

S/057/63/033/004/003/021
B187/B102

Mass spectrometers with...

magnification of the system is $M_{\theta} = \sqrt{\frac{v_{p1} \cos \theta_{1m}}{v_{p2} \cos \theta_{2m}}}$, where θ is the angle of deflection, v the electric potential, $v_p = v(1 - \frac{eV}{2mc^2})$, m is the rest mass

of the particle. The indices 1 and 2 denote the values before and after the passage through the corresponding fields; the index m signifies that the particle shall move in the central plane. The condition for achromatism is $\frac{\sin \theta_{2m}}{\sin \theta_{1m}} = \sqrt{\frac{v_2}{v_1}}$. Three schemes of the arrangement for mass spectroscopes

are described, which when the direction of motion of the particles is reversed, yield three further schemes. The following formulas are valid for these schemes (for nonrelativistic approximation). The horizontal

magnification of the instrument is $M_{Hor} = M_{\theta} \frac{F_2}{F_1} \sqrt{\frac{v_o}{v_B} \frac{v_2}{v_1}} = - \frac{\cos \theta_{1m}}{\cos \theta_{2m}} \frac{F_2}{F_1} \sqrt{\frac{v_o}{v_B}}$.

F_1 and F_2 denote the focal widths of the collimator and the focusing lens, v_o is the potential in the object space of the collimator lens and v_B is

Card 2/3

Mass spectrometers with...

S/057/63/033/004/003/021
B187/B102

the potential in the image space of the focusing lens. Furthermore formulas are derived for the image line and the radius of curvature of the image. $\frac{dl}{dm} = - \frac{F_2}{2m} \sqrt{\frac{v_2}{v_B}} \operatorname{tg} \psi_{2m} \left(1 - \frac{v_1}{v_2}\right)$ is valid for the linear dispersion

of the apparatus, m is the particle mass. The design of the three apparatus described in the present paper is simpler than that suggested by the author in his previous paper since simple electrostatic slit lenses are used and not telescopic systems of such lenses as before. Since the deflection angle in the magnetic field is limited with 90° the dispersion is lower. There are 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute imeni A. F. Ioffe AS USSR, Leningrad)

SUBMITTED: April 2, 1962

Card 3/3

KEL'MAN, V.M.; RODNIKOVA, I.V.

New designs for mass spectrometers. Zhur.tekh.fiz. 32 no.3:269-
278 Mr '62. (MIRA 15:4)

1. Fiziko-tekhnicheskii institut imeni A.F.Ioffe AN SSSR, Leningrad.
(Mass spectrometry)

KEL'MAN, V.M.; RODNIKOVA, I.V.

Electrostatic prismatic analyser of the energy of charged particles.
Zhur.tekh.fiz. 32 no.3:279-286 Mr '62. (MIRA 15:4)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.
(Particles (Nuclear physics)) (Nuclear physics--Instruments)

35357

S/057/62/032/003/003/019
B125/B102

9.6150
9.3140 (1532)

AUTHORS: Kel'man, V. M., and Rodnikova, I. V.

TITLE: Electrostatic prismatic energy analyzer for charged particles

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 3, 1962, 279 - 286

TEXT: Problems concerning the simulation of an ordinary optical prism with an electrostatic prism are discussed. The "faces" of the electrostatic prism consisting of two cylindrical immersion slit lenses make up the telescopic system shown in Fig. 1. The prism consists of two pairs of lenses of this type. All their central planes coincide and make up the principal section of the prism (Fig. 2). φ is the angle between the direction of motion of the particles and the xy-plane, and ψ the angle between the projection of the particle velocity onto the xy-plane and the y-axis. The particle velocity is $v = \sqrt{-2eV/m}$. The potential before, inside, and after the prism is represented by V_1 , V_2 , and V_3 , respectively. 4

Assuming that $V_3 = V_1$, $\sin \psi_{4m} = \sin \gamma \sqrt{\frac{V_2}{V_1}} + \cos^2 \psi_{1m} - \sin \psi_{1m} \cos \gamma$ (6)

Card 1/4

Electrostatic prismatic energy...

S/057/62/032/003/003/019
B125/B102

holds, and $\rho = V_2 - V_1$. For thin prisms of this type, the dispersion

$$\frac{d\theta_{im}}{dV_1} = -\frac{\sin \gamma}{2 \cos \theta_{im}} \frac{\varphi}{V_1^2 \sqrt{\frac{\varphi}{V_1} + \cos^2 \theta_{im}}} \quad (7)$$

is simplified to

$$\frac{d\theta_{im}}{dV_1} = -\frac{\varphi \operatorname{tg} \theta_{im}}{V_1 (V_1 + \varphi)}, \quad (10) \text{ and}$$

$$\frac{d\theta_{im}}{dV_1} = -\frac{\varphi}{V_1^2 \sqrt{1 + \frac{\varphi}{V_1}}} \frac{1}{\sqrt{\operatorname{ctg}^2 \frac{\gamma}{2} - \frac{\varphi}{V_1}}} \quad (11).$$

When $\varphi \rightarrow V_1$ ($\theta_{im} \rightarrow 0$), the dispersion of the prism tends to infinity. The addition of an electric collimating lens and an electric focusing lens results in an electrostatic prismatic analyzer (spectrometer) (Fig. 4) of dispersion

$$\frac{dl}{dV_1} = F_2 \sqrt{\frac{V_1}{V_2}} \frac{d\theta_{im}}{dV_1} = \frac{\varphi}{V_1^{3/2} V_2^{1/2} \sqrt{1 + \frac{\varphi}{V_1}}} \frac{F_2}{\sqrt{\operatorname{ctg}^2 \frac{\gamma}{2} - \frac{\varphi}{V_1}}}, \quad (12)$$

Card 2/6

Electrostatic prismatic energy...

S/057/62/032/003/003/019
B125/B102

(with immersion lenses). F_2 is the back focal length of the focusing immersion lens and V_{im} the potential of its image space. The prismatic analyzer is easier to adjust when single axisymmetric lenses rather than immersion lenses are used. Radioactive substances or the exit slit of a source of radioactive particles can be investigated using the electrostatic analyzers discussed. With infinitely narrow objects, there are deviations in the angle in the horizontal plane. The spectral lines are also slightly curved in electrostatic spectrometers. The simplified analyzer of linear dispersion

$$\frac{dl}{dV_1} = \frac{d\delta_{2m}}{dV_1} \cdot F_2 \sqrt{\frac{V_2}{V_m}} = \frac{F_2}{2} \operatorname{tg} \delta_{2m} \frac{V_2 - V_1}{V_1 \sqrt{V_2 V_m}} \quad (30)$$

is shown in Fig. 7. It consists of a cylindrical telescopic system and two electrostatic lenses (either immersion or single axisymmetric lenses). The spherical aberration of the apparatus described is of third order as compared with the magnitude of the beam width. There are 7 figures and 3 non-Soviet references. The reference to the English-

Card 3/6

Electrostatic prismatic energy...

S/057/62/032/003/003/019
B125/B102

language publication reads as follows: E. M. Purcell. Phys. Rev., 54,
818, 1938.

ASSOCIATION: Fiziko-tekhnicheskii institut im. A. F. Ioffe AN SSSR
Leningrad (Physicotechnical Institute imeni A. F. Ioffe
AS USSR Leningrad)

SUBMITTED: May 31, 1961

Fig. 1. Telescopic system consisting of two cylindrical lenses.

Fig. 2. Electrostatic prism. (1) Cylindrical lens; (2) intermediate
linear focus.

Fig. 4. Electrostatic prismatic analyzer. (1) Object; (2) collimator
lens; (3) electrostatic prism; (4) focusing lens; (5) image. The path of
rays in the plane of the principal surface is shown in the figure.

Fig. 7. Analyzer simplified in construction. (1) Object; (2) collimator
Card 4/6

RODNIKOVA, I. V.

PRIKHOTKO, A. F.

24(7) b3 PHASE I BOOK EXPLOITATION SOV/1365

L'vov. Universitet

Materialy I Vsesoyuznogo novoshecheniya po spektroskopii. t. 1: Molekulyarnaya spektroskopiya (Papers of the 10th All-Union Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy) [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies printed. (Series: Its: Fizichnyy zbirnyk, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR. Komissiya po spektroskopii. Ed.: Jazer, S.L.; Tech. Ed.: Saranyuk, T.V.; Editorial Board: Larister, G.S., Academician (Resp. Ed., Deceased), Neporent, B.S., Doctor of Physical and Mathematical Sciences, Pabelinskiy, I.L., Doctor of Physical and Mathematical Sciences, Pablikan, V.A., Doctor of Physical and Mathematical Sciences, Kornitak, V.G., Candidate of Technical Sciences, Rayskiy, S.M., Candidate of Physical and Mathematical Sciences, Klimovskiy, L.K., Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S., Candidate of Physical and Mathematical Sciences, and Glauberman, A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

- | | |
|---|-----|
| Luft, B.D., and Ye. S. Sher. Spectrophotometric Method for the Determination of Microquantities of Mineral Oil in Organic Solvents and on Metal Parts | 337 |
| Kozyreva, M.S., and I.V. Rodnikova. Study of Petroleum Oil by Means of Infrared Absorption Spectra | 340 |
| Sergiyenko, S.P., M.P. Teterina, and L.M. Rozenberg. Infrared Spectroscopic Study of High Molecular Petroleum Paraffins | 344 |
| Kard, P.G. Analytical Theory of Multilayer Dielectric Coatings | 350 |
| Rozlyakova, V.A., and A.I. Finkel'shteyn. Absorption Spectra of Light Filters Made of Organic Glass for the Visible Spectrum | 352 |
| Lipskiy, Yu. N. Polarization Characteristics of Spectral Equipment | 355 |

Card 22/30

RODNIKOVA, M.N.

Temperature dependence of heats of solution of cesium chloride
in aqueous solutions of hydrochloric acid. Zhur. neorg. khim. 3
no.10:2417-2419 0 '58. (MIRA 12:3)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova
AN SSSR.

(Heat of solution) (Cesium chloride) (Hydrochloric acid)

AUTHOR: Rodnikova, M. N. SOV/78-3-10-30/35

TITLE: The Temperature Dependence of the Heat of Solution of Cesium Chloride in Aqueous Solutions of Hydrochloric Acid (Temperatur-naya zavisimost' teplot rastvoreniya khloristogo tseziya v vodnykh rastvorakh solyanoy kisloty)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 10, pp 2417-2419 (USSR)

ABSTRACT: In the present paper the results of the measurements of the heat of solution of cesium chloride in aqueous solutions of HCl at 15° and 35°C were given. The experiments are based on the determination of the solubility of cesium salts and of the specific heat of the calorimetric system. The results are given in tables and diagrams. On the basis of the integral heat of solution $\beta = - \frac{Li}{m_{50}}$ was calculated with the following values:

$$\begin{aligned}\beta &= - 134 \text{ kcal / (mol. [m}_{50}]) \text{ at } 35^{\circ}\text{C} \\ \beta &= - 290 \text{ kcal / (mol. [m}_{50}]) \text{ at } 15^{\circ}\text{C} \\ \beta &= - 274 \text{ kcal / (mol. [m}_{50}]) \text{ at } 25^{\circ}\text{C}\end{aligned}$$

Card 1/2

The Temperature Dependence of the Heat of Solution SOV/78-3-10-30/35
of Cesium Chloride in Aqueous Solutions of Hydrochloric Acid

(m_{50} = unit of concentration of HCl)

There are 1 figure , 1 table , and 5 references, 5 of which
are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova
Akademii nauk SSSR(Institute of General and Inorganic
Chemistry imeni N. S. Kurnakov of the Academy of Sciences
USSR)

SUBMITTED: May 19, 1958

Card 2/2

RODNIKOVA, V. V.

Rodnikova, V. V. "Investigation of the cooling of a large mass of glass and heat transfer by radiation in heated glass," Izvestiya Kiyevsk. politekhn. in-ta, Vol. VIII, 1948 (on cover: 1949). p. 313-15

SO: U-5241, 17 December 1953, (Letopis Zhurnal 'nykh Statey, 26, 1949)